

Application No.: 10/669,404

Docket No.: UC0318 US NA

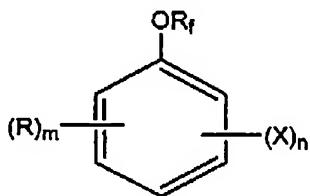
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AMENDMENTS TO THE SPECIFICATION

Please amend the above referenced specification as follows.

Page 1, line 31 through page 2, line 27, replace with the following:

The invention provides fluorinated solvents useful for solution deposition of organic active materials in the manufacture of organic electronic devices. In one embodiment, there are provided compounds having the structure:



wherein:

R is C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, or C₁-C₁₀ oxyalkyl,

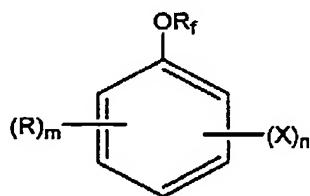
R_f is C₁-C₁₀ fluorinated alkyl, C₄-C₁₀ C₂-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl, and

X is H, F, Cl, Br, C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, C₁-C₁₀ oxyalkyl, C₁-C₁₀ fluorinated alkyl, C₄-C₁₀ C₂-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl,

m is from 1-5, and

n is from 0-4, wherein m + n is no greater than 5.

In another embodiment, there are provided organic electronic devices having at least one organic active layer, deposited from a solution, wherein the solution comprises at least one compound having the structure:



wherein:

R is C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, or C₁-C₁₀ oxyalkyl,

R_f is C₁-C₁₀ C₂-C₁₀ fluorinated alkyl, C₁-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl, and

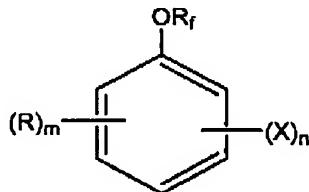
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X is H, F, Cl, Br, C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, C₁-C₁₀ oxyalkyl, C₁-C₁₀ fluorinated alkyl, C₄-C₁₀ C₂-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl,
 m is from 0-5, and
 n is from 0-5, wherein m + n is no greater than 5.

Page 3, lines 4-18, replace with the following.

It has been found that certain fluorinated aryloethers are useful as solvents for solution deposition of organic active materials onto a variety of surfaces. In one embodiment, there are provided compounds having the structure:



wherein:

R is C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, or C₁-C₁₀ oxyalkyl,
 R_f is C₁-C₁₀ fluorinated alkyl, C₄-C₁₀ C₂-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl, and
 X is H, F, Cl, Br, C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, C₁-C₁₀ oxyalkyl, C₁-C₁₀ fluorinated alkyl, C₄-C₁₀ C₂-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl,
 m is from 1-5, and
 n is from 0-4, wherein m + n is no greater than 5.

In the compounds of the invention, the R group is not fluorinated.

Page 5, lines 7-9, replace with the following paragraph.

In some embodiments of the invention, R_f is C₁-C₁₀ fluorinated alkyl, C₄-C₁₀ C₂-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₄-C₁₀ C₂-C₁₀ fluorinated oxyalkenyl.

Page 7, lines 4-20, replace with the following paragraph.

Scheme 1 depicts a reaction between a phenol and a suitable fluorinated olefin in the presence of a base catalyst, resulting in the corresponding fluorinated

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arylether. The reactions outlined above employ a C₂ and a C₃ fluorinated olefin, i.e., tetrafluoroethylene and hexafluoropropylene, respectively, however, it is understood that any C₄-C₁₀ C₂-C₁₀ fluorinated olefin is suitable for use in preparing new fluorinated aryl ethers. Aryl-1,1,1,2,3,3-hexafluoropropyl ethers M, N and O were prepared similarly, by reacting phenolic compound in the presence of base with hexafluoropropene, instead of tetrafluoroethylene. It should be pointed out, that in this case isolated product contained 6-8% of unsaturated material [CF₃CF=CFOAr], forming in the reaction as byproduct. The reaction set forth in Scheme 1 is typically carried out in polar solvents or polar solvent mixtures, such as, for example, water, water/acetonitrile, and the like. The reaction is typically carried out at a temperature of at least about 80°C for about 10-15 hours. Reaction conditions and boiling points of polyfluorinated aryl ethers are given in Table 1 of Example 1.